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## PATENT ABSTRACTS OF JAPAN

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### (54) AGGREGATE DISCRIMINATING APPARATUS FOR CONCRETE

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#### (57) Abstract:

**PROBLEM TO BE SOLVED:** To accurately discriminate the grain size of aggregate for concrete without being affected by external factors.

**SOLUTION:** An acceptance hopper 4 is installed at the upper section of a transport surface 2a at the upstream side of a transport belt conveyor 2. A flow rate adjustment plate 8a is provided at the section of an exhausting port 4a of the acceptance hopper 4, and the height of the aggregate 1 for concrete that is exhausted from the acceptance hopper 4 is made uniform for feeding downstream. The transparent surface 2a at the downstream side of the acceptance hopper 4 of the transport belt conveyor is set to be a measurement region A. The measurement region A is covered with a shielding hood 7. A luminaire 13 and a CCD camera 18 are installed at the shielding hood 7. The aggregate 1 for concrete that is carried to the measurement region A is imaged by the CCD camera 17, and the data are processed by an image-processing unit.

